

ABSTRACT

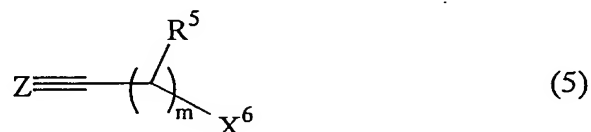
A process for producing an organotitanium compound
 5 capable of regioselectively converting a substituted
 acetylene compound into polysubstituted benzene or
 polysubstituted pyridine. The process comprises reacting an
 acetylene compound represented by the formula (1)



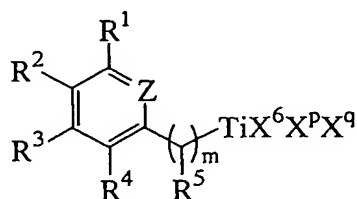
10 [where R^1 and R^2 denote a C_{1-20} alkyl group or the like]
 in the presence of a prescribed titanium compound and a
 Grignard reagent with a compound represented by the formula
 (4)



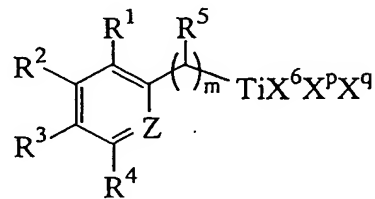
15 [where R^3 and R^4 denote a hydrogen atom or the like]
 and further reacting with a compound represented by the
 formula (5)



[where R^5 denotes a hydrogen atom or the like, Z denotes CR'
 20 (where R' denotes a hydrogen atom or the like), nitrogen
 atom, X^6 denotes a halogen atom or the like, and m is 0 or
 1]
 thereby giving the titanium compound represented by the
 formula (6) and/or (7).



(6)



(7)

[where $R^1 \sim R^5$, Z , X^6 , and m are defined as above; and X^p and X^q denote any of $X^1 \sim X^4$].